ANALYTICA CHIMICA ACTA

An international journal devoted to all branches of analytical chemistry

(Full texts are incorporated in CJELSEVIER, a file in the Chemical Journals Online database available on STN International; Abstracted, indexed in: Aluminum Abstracts; Anal. Abstr.; Biol. Abstr.; BIOSIS; Chem. Abstr.; Curr. Contents Phys. Chem. Earth Sci.; Engineered Materials Abstracts; Excerpta Medica; Index Med.; Life Sci.; Mass Spectrom. Bull.; Material Business Alerts; Metals Abstracts; Sci. Citation Index)

VOL. 263 NO. 1–2 CONTENTS JUNE 15, 1992

Publisher's Note vii

Review

Mass spectrometry in environmental organic analysis
D. Barceló (Barcelona, Spain) 1

Chemometrics

Artefacts in evolving factor analysis-based methods for peak purity control in liquid chromatography with diode-array detection
H.R. Keller and D.L. Massart (Brussels, Belgium) 21

Evolving factor analysis in the presence of heteroscedastic noise
H.R. Keller, D.L. Massart (Brussels, Belgium), Y.Z. Liang and O.M. Kvalheim (Bergen, Norway) 29

Principal components and Procrustean analyses of stripping voltammograms
V. Simeon, D. Pavković and G. Branica-Jurković (Zagreb, Croatia) 37

Flow Injection

Total and individual determination of creatine kinase isoenzyme activities by flow injection and liquid chromatography
M.D. Luque de Castro and J.M. Fernandez-Romero (Córdoba, Spain) 43

Electroanalytical Chemistry and Sensors

Thermally grown iridium oxide electrodes for pH sensing in aqueous environments at 0 and 95°C
M.L. Hitchman and S. Ramanathan (Glasgow, UK) 53

Constant-current enhanced potentiometric stripping analysis
Y. Zie and C.O. Huber (Milwaukee, WI, USA) 63

Development of a polymer-based electrode for selective detection of dichloramine
Y. Lin and G.G. Wallace (Wollongong, Australia) 71

Multi-component analysis in solution using piezoelectric quartz sensors. Part II. Determination of aspirin and salicylic acid in aqueous solutions
W. Wei, L. Nie and S. Yao (Changsha, China) 77

Reliable amperometric determination of glycerol and glycerol-3-phosphate with a bienzymatic nylon membrane electrode
B. Merchie, A. Girard, B. Maisterrena, P. Michalon and R. Couturier (Villeurbanne, France) 85

Thin-film polyamine biosensor: substrate specificity and application to fish freshness determination
G.C. Chemnitius, M. Suzuki, K. Isobe (Braunschweig, Germany), J. Kimura (Kawasaki, Japan), I. Karube (Tokyo, Japan) and R.D. Schmid (Braunschweig, Germany) 93

Mediated glucose sensor using a cylindrical microelectrode
K. Yokoyama, S.M. Lee, E. Tamiya, I. Karube (Tokyo, Japan), K. Nakajima, S. Uchiyama, S. Suzuki (Saitama, Japan), M. Akiyama and Y. Masuda (Tokyo, Japan) 101

(Continued overleaf)

Contents (continued)

Atomic Spectrometry

Cross-interferences of hydride-forming elements in hydride-generation atomic absorption spectrometry
P. Barth, V. Krivan and R. Hausbeck (Ulm, Germany) 111

Reineckate ions as a precipitant for the determination of trace amounts of polyacrylamides in potable waters
Y. Arryanto and L.S. Bark (Salford, UK) 119

Remote two-photon excited fluorescence sensing in a simulated fermentation broth
D.M. Dinkel and F.E. Lytle (West Lafayette, IN, USA) 131

Synthesis and chromatography of 1,2-diamino-4,5-dimethoxybenzene, 6,7-dimethoxy-2-methylquinoxaline and 6,7-dimethoxy-2,3-dimethylquinoxaline for use in a liquid chromatographic fluorimetric assay of methylglyoxal
A.C. McLellan and P.J. Thornalley (Colchester, UK) 137

Kinetic Analysis

Selective kinetic determination of traces of gold by electrodeposition on a piezoelectric detector
C. Sanchez-Pedreño, J.A. Ortuño and D. Martinez (Murcia, Spain) 143

Titrimetry

Hydrolytic precipitation titrations followed by a glass electrode
D.B. Vončina, D. Dobčnik (Maribor, Slovenia) and S. Gomišček (Ljubljana, Slovenia) 147

Determination of microgram amounts of cyanide by the induced iodine–azide reaction with the use of sodium tetrathionate
J. Kurzawa, K. Janowicz and Z. Kurzawa (Poznan, Poland) 155

Other Topics

Chromogenic lithium cryptahemispheraplexes for determination of sodium in aqueous solutions
B.P. Czech, E. Chapoteau, M.Z. Chimenti, W. Zazulak, C.R. Gebauer and A. Kumar (Tarrytown, NY, USA) 159

Cation selectivity of poly(vinyl chloride) membranes based on cryptands with thiourea fragments
N.G. Lukyanenko, N.Yu. Titova, N.L. Nesterenko, T.I. Kirichenko and S.V. Scherbakov (Odessa, Ukraine) 169

Passive dosimeter for monitoring ammonia vapor
T. Pal, A. Pal, G.H. Miller and T. Vo-Dinh (Oak Ridge, TN, USA) 175

Author Index 179